

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An information record medium on which there are recorded:

an ~~[[a]]~~ object data file for storing, by a unit of packet, object data which includes (a) a main stream including video information to indicate a main-video and

(b) a sub stream including a plurality of button information to indicate a plurality of buttons displayable at least partially over the main-video and to function as a button in the sub stream;

a play list information file for storing play list information which defines, by a unit of item, IN-point information to indicate a reproduction start time of the object data and OUT-point information to indicate a reproduction end time of the object data ~~managing, by a unit of item, the object data;~~ and

an object information file for storing object information which includes an address of the object data, which is specified by the IN-point information and the OUT point information, corresponding to each item ~~indicating an address of~~

~~the object data which is specified by the item, wherein~~

at least one of the plurality of button information includes normal button information for defining a normal display control for displaying the button in a normal state in which the button is not selected and executed~~displaying a normal state button~~, selected button information for defining a selected display control for displaying the button in a selected state in which the button is selected~~displaying a selected state button~~, and activated button information for defining an activated display control for displaying the button in an activated state in which the button is activated~~displaying an activated state button~~,

each of the object data file, the play list information file and the object information file is recorded into a different area, respectively.

2. (Previously Presented) The information record medium according to claim 1, wherein the button information defines an opaque video part in a rectangular area placed in the sub-stream.

3-7. (Canceled)

8. (Original) The information record medium according to claim 1, wherein the button information further defines a button command to be executed if the button is operated.

9.-11. (Cancelled)

12. (Currently Amended) An information record apparatus comprising:

a first record device for recording ~~[[a]]~~ an object data file for storing, by a unit of packet, object data which includes (a) a main stream including video information to indicate a main-video and (b) a sub stream including a plurality of button information to indicate a plurality of buttons displayable at least partially over the main-video and to function as a button in the sub stream;

a second record device for recording a play list information file for storing play list information which defines, by a unit of item, IN-point information to indicate a reproduction start time of the object data and OUT-point information to indicate a reproduction end time of the object data ~~managing, by a unit of item, the object data;~~ and

a third record device for recording an object information file for storing object information which includes an address of the object data, which is specified by the IN-

point information and the OUT point information, corresponding to each item indicating an address of the object data which is specified by the item, wherein

at least one of the plurality of button information includes normal button information for defining a normal display control for displaying the button in a normal state in which the button is not selected and executed ~~displaying a normal state button~~, selected button information for defining a selected display control for displaying the button in a selected state in which the button is selected ~~displaying a selected state button~~, and activated button information for defining an activated display control for displaying the button in an activated state in which the button is activated ~~displaying an activated state button~~,

each of the object data file, the play list information file and the object information file is recorded into a different area, respectively.

13. (Cancelled)

14. (Currently Amended) An information record method comprising:  
~~a first record process of~~ recording [[a]] an object data file for storing, by a unit of packet, object data which includes (a) a main stream including video information to

indicate a main-video and (b) a sub stream including a plurality of button information to indicate a plurality of buttons displayable at least partially over the main-video and to function as a button in the sub stream;

~~a second record process of~~ recording a play list information file for storing play list information which defines, by a unit of item, IN-point information to indicate a reproduction start time of the object data and OUT-point information to indicate a reproduction end time of the object data-managing, by a unit of item, the object data; and

~~a third record process of~~ recording an object information file for storing object information which includes an address of the object data, which is specified by the IN-point information and the OUT point information, corresponding to each item ~~indicating an address of the object data which is specified by the item,~~ wherein

at least one of the plurality of button information includes normal button information for defining a normal display control for displaying the button in a normal state in which the button is not selected and executed ~~displaying a normal state button,~~ selected button information for defining a selected display control for displaying the button in a selected state in which the button is selected ~~displaying a selected state button,~~ and activated button information for defining an activated

display control for displaying the button in an activated state  
in which the button is activated~~displaying an activated state~~  
~~button,~~

each of the object data file, the play list  
information file and the object information file is recorded  
into a different area, respectively.

15. (Cancelled)

16. (Currently Amended) An information reproduction apparatus for  
reproducing information on the~~an~~ information record medium  
according to claim 1~~on which there are recorded: a object data~~  
~~file for storing, by a unit of packet, object data which~~  
~~includes (a) main stream including video information to indicate~~  
~~a main video and (b) sub stream including a plurality of button~~  
~~information to indicate a plurality of buttons displayable at~~  
~~least partially over the main video and to function as a button~~  
~~in the sub stream; a play list information file for managing, by~~  
~~a unit of item, the object data, and an object information file~~  
~~for indicating an address of the object data which is specified~~  
~~by the item, wherein at least one of the plurality of button~~  
~~information includes normal button information for displaying a~~  
~~normal state button, selected button information for displaying~~  
~~a selected state button, and activated button information for~~

~~displaying an activated state button,~~

said information reproduction apparatus comprising:

a reading device for reading out the object data file, the play list file and the object information file;

a display output device capable of outputting the button information, over the reproduced video information; and

a control device for controlling the display output device to display the button, on the basis of the button information in the reproduced button information.

17. (Cancelled)

18. (Currently Amended) An information reproduction method of reproducing information on the ~~an~~ information record medium according to claim 1 ~~on which there are recorded: a object data file for storing, by a unit of packet, object data which includes (a) main stream including video information to indicate a main video and (b) sub stream including a plurality of button information to indicate a plurality of buttons displayable at least partially over the main video and to function as a button in the sub stream; a play list information file for managing, by a unit of item, the object data; and an object information file for indicating an address of the object data which is specified by the item, wherein at least one of the plurality of button~~

~~information includes normal button information for displaying a normal state button, selected button information for displaying a selected state button, and activated button information for displaying an activated state button,~~

said information reproduction method comprising:

a reading process of reading out the object data file, the play list file and the object information file;

~~a display~~ displaying output process capable of outputting the button information, over the reproduced video information; and

~~a control~~ controlling process of controlling the display output process to display the button, on the basis of the button information in the reproduced button information.

19-23. (Cancelled)